

Depth Range (feet)		PERCENTAGES						COMMENTS
		unc*	disaggregated		consolidated			
		sand/ gravel	ms*	ss*	ms*	ss*	ls*	
120	140	0	0	0	50	50	0	gray and black mudstone, shale, and sandstone with trace gravel; trace pyrite and gypsum; slightly calcareous
140	160	0	0	0	0	100	0	brown, gray, and yellow heterolithic sandstone; some iron oxide; slightly calcareous; (sandstone or sandstone gravel clasts of conglomerate?)
160	180	0	0	50	0	50	0	tan-white, yellow, black, gray, and red sand with heterolithic sandstone; sand is fine to coarse and dominantly consists of quartz with minor chert and limestone; trace black carbonaceous material; calcareous; transition between Burro Canyon Formation and Dakota Sandstone?
180	200	0	0	100	0	0	0	tan sand; sand is fine to medium and consists dominantly of quartz with feldspar and chert; trace pyrite; calcareous
200	220	90	10	10	0	0	0	tan, gray, and green chert and limestone gravel with fine to medium sand and clay; calcareous
220	240	50	0	50	0	0	0	tan, brown, gray, green, sand with gravel (limestone and chert) trace pyrite; sand is fine to coarse and consists of quartz, feldspar, and lithic fragments; (some clasts have rind/conglomerate?); trace pyrite; calcareous

*unc=unconsolidated; ms=mudstone, sandy mudstone, and siltstone; ss=sandstone; ls=limestone

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		sand/ gravel	ms*	ss*	ms*	ss*	ls*	
240	260	0	0	0	75	25	0	green mudstone and sandy mudstone with minor green-white fine- to medium grained sandstone; chert; pyrite; calcareous
260	280	0	0	0	90	10	0	green mudstone and sandy mudstone; trace chert; non calcareous; Brushy Basin Member of the Morrison Formation?
280	300	0	0	0	100	0	0	red and green mudstone, sandy mudstone, and siltstone; non calcareous
300	320	0	0	0	10	90	0	light and medium green very fine-grained sandstone with siltstone, mudstone, and sandy mudstone; non calcareous
320	340	0	0	0	90	10	0	“
340	360	0	0	0	100	0	0	green and pink mudstone, sandy mudstone, and siltstone; trace pyrite; non calcareous
360	380	0	0	0	100	tr	0	“ trace sandstone; chert
380	400	0	0	0	100	0	0	pink with minor green-gray and red sandy mudstone and mudstone; non calcareous
400	420	0	0	0	100	tr	0	green, gray, black, brown, pink-tan, and yellow mudstone, sandy mudstone, and siltstone; trace black carbonaceous material; calcareous; trace volcanic rock fragment and sandstone

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		sand/ gravel	ms*	ss*	ms*	ss*	ls*	
420	440	0	0	0	100	0	0	red and minor green and gray mudstone; non calcareous
440	460	0	0	0	100	0	0	“
460	480	0	0	0	100	0	tr	green, tan, red, pink, and gray mudstone and sandy mudstone; trace pyrite; non calcareous
480	500	0	0	0	100	0	tr	“ green, tan, gray, pink, and tan
500	520	0	0	0	100	0	tr	“ green, tan, red brown, and gray
520	540	0	10	0	86	2	2	green-gray, gray, and tan-pink clay, sandy mudstone, and fine-grained sandstone and limestone; calcareous
540	560	0	10	0	86	2	2	“
560	580	0	20	0	80	tr	tr	green-gray, tan, and red-brown clay, mudstone, sandy mudstone with trace sandstone and limestone; calcareous
580	600	0	0	0	100	tr	0	green-gray, green, tan, red-brown, green, and yellow sandy mudstone and mudstone with trace sandstone; calcareous
600	620	0	0	0	98	2	tr	green, gray, and red-brown sandy mudstone and mudstone with minor sandstone and trace limestone; calcareous

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		sand/ gravel	ms*	ss*	ms*	ss*	ls*	
620	640	0	0	20	60	20	tr	tan-gray sand and sandstone with green and red-brown mudstone and sandy mudstone; sand is fine to medium and consists of quartz, feldspar, lithic fragments, and mafic minerals; trace limestone; calcareous
640	660	0	0	0	80	20	tr	red-brown with minor green mudstone and sandy mudstone with fine-grained sandstone; trace limestone; calcareous
660	680	0	0	0	80	20	tr	“
680	700	0	90	0	10	0	tr	white-tan-gray sand with minor green and red-brown mudstone; sand is fine to medium and dominantly consists of quartz with minor feldspar and lithic fragments; trace limestone, pyrite, and chert; calcareous; Salt Wash Member of the Morrison Formation?
700	720	0	0	0	90	10	tr	red-brown and green siltstone, mudstone, sandy mudstone, and fine-grained sandstone; sandstone consists of quartz, feldspar, and lithic fragments; trace pyrite; trace limestone; calcareous
720	740	0	0	10	40	50	0	tan-pink sand and sandstone with green and red-brown siltstone, mudstone, and sandy mudstone; trace pyrite; calcareous

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		sand/ gravel	ms*	ss*	ms*	ss*	ls*	
740	760	0	0	90	5	5	tr	white-gray sand with minor red-brown and green mudstone and sandstone; sand is fine to medium and dominantly consists of quartz with minor feldspar and lithic fragments; trace limestone; calcareous
760	780	0	0	50	40	10	tr	“
780	800	0	0	0	100	0	tr	red-brown and minor green mudstone, sandy mudstone, and siltstone; trace gypsum and limestone; calcareous
800	820	0	0	0	90	10	tr	red-brown, green-gray, and green sandy mudstone, mudstone, siltstone with minor white sandstone; trace limestone; calcareous
820	840	0	0	20	20	60	tr	tan-gray quartz-rich sand with red and green fine-grained sandstone and minor red-brown mudstone, siltstone, and sandy mudstone; trace limestone and gypsum; calcareous
840	860	0	0	5	90	5	tr	“ red brown with minor green
860	880	0	0	0	90	10	tr	red-brown and minor green mudstone, sandy mudstone, and siltstone with white fine-grained quartz-rich sandstone and trace limestone; calcareous
880	900	0	0	0	90	10	tr	“

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		sand/ gravel	ms*	ss*	ms*	ss*	ls*	
900	920	0	0	0	75	23	2	red-brown, purple-brown, and minor green siltstone, mudstone, and fine-grained sandstone with minor limestone; trace pyrite and gypsum; calcareous; trace black carbonaceous material?; calcareous; Summerville Formation?
920	940	0	0	0	75	24	1	“
940	960	0	0	25	50	25	tr	tan-pink and white-gray sand, red-brown siltstone and mudstone, and minor green fine- to medium grained sandstone; trace limestone; calcareous
960	980	0	0	0	75	23	2	red-orange siltstone and mudstone with minor green mudstone and gray limestone; red-brown fine-grained sandstone composed of quartz, feldspar, and lithic fragments; calcareous
980	1000	0	0	25	25	50	tr	pink sand with red-orange fine-grained sandstone and red-brown mudstone; sand is fine to medium and consists of quartz and feldspar; calcareous; Entrada Sandstone?
1000	1020	0	0	50	25	25	tr	“
1020	1040	0	0	10	30	60	0	red-orange very fine- to fine-grained sand and sandstone with minor green siltstone; sandstone consists of quartz, feldspar, lithic fragments, and mafic minerals; trace gypsum

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		sand/ gravel	ms*	ss*	ms*	ss*	ls*	
1040	1060	0	0	10	10	80	tr	“ trace limestone
1060	1080	0	0	50	10	40	0	red-orange fine-grained sandstone, fine to medium sand, red-brown mudstone, and trace green mudstone; trace chert, gypsum, and pyrite; calcareous
1080	1100	0	0	10	10	80	tr	pink-orange quartz-rich sand with red-orange very fine to fine-grained sandstone composed of quartz, feldspar, and mafic minerals; red-brown and green mudstone; trace limestone; trace pyrite; slightly calcareous
1100	1120	0	0	0	50	50	0	red-brown, red-orange, green, and black very fine- to fine-grained sandstone and mudstone; trace gypsum; calcareous
1120	1140	0	0	0	10	90	0	“
1140	1160	0	0	20	5	75	0	red-orange and gray quartz-rich sand and red-orange sandstone with minor green mudstone; sandstone consists of quartz, feldspar, lithic fragments, and mafic minerals; trace pyrite; calcareous
1160	1180	0	0	20	5	75	0	“
1180	1200	0	0	75	5	20	0	“ pink gray sand with red-orange and green mudstone

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1200	1220	0	0	0	99	0	1	brown with minor green and red-orange mudstone and sandy mudstone; minor limestone; trace gypsum; calcareous
1220	1240	0	0	50	50	0	tr	brown, white, and minor green sand with mudstone and sandy mudstone; sand is fine to medium and dominantly consists of quartz with minor feldspar and lithic fragments; trace limestone; calcareous
1240	1260	0	0	90	10	0	0	white-pink-gray fine to medium quartz-rich sand with red-brown and green mudstone; trace pyrite and gypsum crystals; calcareous
1260	1280	0	0	90	10	0	0	“ slightly calcareous
1280	1300	0	0	98	2	0	0	yellow-white fine to medium quartz-rich sand with minor red-brown and green mudstone; trace pyrite; slightly calcareous
1300	1320	0	0	90	10	0	0	“
1320	1340	0	0	0	50	50	0	red-brown and minor green mudstone with white-gray medium-grained quartz-rich sandstone and red-orange fine-grained sandstone composed of quartz, feldspar, and mafic minerals; calcareous

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1340	1360	0	0	20	10	70	tr	red-orange, red-brown, and minor green fine to medium sand, mudstone, and fine-grained sandstone; trace limestone; calcareous
1360	1380	0	0	50	10	40	tr	orange-pink quartz-rich fine to medium sand with red-brown mudstone and red-orange very fine-to fine-grained sandstone composed of quartz, feldspar, lithic fragments, and mafic minerals; trace limestone; calcareous
1380	1390	0	0	80	10	10	0	“ slightly calcareous; no limestone
1390	1400	0	0	50	10	40	0	“ trace chert
1400	1410	0	0	25	25	50	tr	red-orange quartz-rich sand, brown mudstone and siltstone, and pink-orange fine-grained sandstone composed of quartz, feldspar, and mafic minerals; trace limestone and gypsum; slightly calcareous
1410	1420	0	0	50	25	25	tr	“
1420	1430	0	0	95	5	0	0	yellow-white quartz-rich fine to medium sand with minor green and red mudstone; trace pyrite; calcareous
1430	1440	0	0	90	10	0	0	“ trace bladed gypsum

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		sand/ gravel	ms*	ss*	ms*	ss*	ls*	
1440	1450	0	0	10	70	20	0	red-brown siltstone, green mudstone, pink-orange sand, and red-orange very fine-grained sandstone; trace chert, gypsum, and black carbonaceous material; calcareous; Carmel Formation?
1450	1460	0	0	50	50	0	tr	pink-yellow quartz-rich fine to medium sand with red-brown siltstone and green mudstone; trace limestone; trace pyrite, black carbonaceous material, and gypsum; calcareous
1460	1470	10	0	0	80	10	0	red-brown, red-orange, gray, green, tan, and yellow siltstone and mudstone with white sandstone; trace gypsum, limestone, chert, and igneous rock clasts; trace black carbonaceous material; conglomerate?; calcareous
1470	1480	10	0	80	10	0	0	pink-orange sand with with red-brown, red-orange, green, and gray siltstone and mudstone; trace limestone, chert, volcanic rock clasts; trace black carbonaceous material; conglomerate?; calcareous
1480	1490	10	0	20	20	50	0	pink-orange sand and sandstone with with red-brown, red-orange, green, and gray siltstone and mudstone; trace limestone, chert, volcanic rock clasts; trace black carbonaceous material; conglomerate?; calcareous

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		sand/ gravel	ms*	ss*	ms*	ss*	ls*	
1490	1500	5	0	80	10	5	0	“ bladed gypsum
1500	1520	0	0	90	10	0	0	pink-white-gray quartz-rich sand with minor feldspar and lithic fragments and minor red and green mudstone; trace chert; slightly calcareous; Navajo Sandstone?
1520	1540	0	0	95	5	0	0	“
1540	1560	0	0	95	5	0	0	“
1560	1580	0	0	90	5	0	5	“
1580	1600	0	0	90	2	0	8	“
1600	1620	0	0	80	2	0	18	“
1620	1640	0	0	80	2	0	18	“
1640	1660	0	0	90	tr	0	10	“ trace mudstone
1660	1680	0	0	90	tr	0	10	“
1680	1700	0	0	90	tr	0	10	“
1700	1720	0	0	95	tr	0	5	“
1720	1740	0	0	90	tr	0	10	“
1740	1760	0	0	95	tr	0	5	“
1760	1780	0	0	95	0	0	5	“ no mudstone
1780	1800	0	0	95	0	0	5	“

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